

YUSONG ZHAO

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EDUCATION

Columbia University

New York, NY

Master of Science in Data Science

Feb 2024

Coursework: Algorithms for Data Science, Exploratory Data Analysis, Stat Inference & Modeling, Introduction to database

Shanghai Jiao Tong University

Shanghai, CN

Bachelor of Science in Biotechnology (Bioinformatics)

Jun 2022

Coursework: Calculus, Linear Algebra, Probability & Statistics, Intro to Programming, Principles of Algorithms in Bioinformatics, Biostatistical Models, Biostatistics Case Study

WORK EXPERIENCE

Zi-Medical, Inc

Somerville, MA

Data Analyst Intern

May 2024 - Aug 2024

- Provided analytical support for marketing and regulatory projects using statistical modeling
- Presented summarized findings to director to support strategic decision-making

China Med Device, LLC

Boston, MA

Data Analyst Intern

Jun 2023 - Sep 2023

- Developed a Python-based tool for processing conference data, integrating APIs and SQL for enrichment.
- Conducted exploratory analysis on external business data to identify marketing opportunities
- Created visualizations to support data-driven decisions and presented results to mentor

RESEARCH EXPERIENCE

Rutgers University

New Brunswick, NJ

Research Intern

Mar 2024 - Present

- Conducted data analysis on visual information patterns and evaluated statistical structures within biological and computational data
- Applied dimensionality reduction techniques (e.g., PCA) and developed sampling strategies for pattern generation
- Contributed to a collaborative project on user behavior analysis using probabilistic clustering methods

Columbia University

New York, NY

Research Intern

Feb 2024 - May 2024

- Reviewed and summarized recent research on statistical properties of computational models, focusing on observed data distribution patterns
- Investigated regularization strategies derived from biological system observations and reported findings to academic advisor
- Implemented selected methods using standard software libraries and conducted performance assessments with statistical tools

Shanghai Jiao Tong University

Shanghai, CN

Research Group Member

Jan 2021 - Jun 2022

- Participated in biomedical data research on drug combination analysis and disease associations
- Conducted data compression and integration of diverse biological features for improved classification performance
- Built and tested statistical models and visualized results with Python-based tools

PUBLICATIONS

- Qiuying Dai, Yanyi Chu, Zhiqi Li, Yusong Zhao, Xueying Mao, Yanjing Wang, Yi Xiong, Dong-Qing Wei. (2021) MDA-CF: Predicting miRNA-disease associations based on a cascade forest model by fusing multi-source information. *Computers in Biology and Medicine* 136:104706. (2020 IF: 4.589)

HONORS & AWARDS

- Shanghai Jiao Tong University Undergraduate Scholarship, 2021
- Shanghai Jiao Tong University Academic Progress Scholarship, 2021
- Meritorious Winner (team), Mathematical Contest in Modeling, 2021

SKILLS & INTERESTS

- **Programming Languages:** Python, R, SQL, C++
- **Data Skills:** Statistical analysis, data visualization, database querying
- **Software Tools:** Jupyter, Excel, Git, MySQL
- **Personal Interests:** Jogging, badminton, travel, reading non-fiction